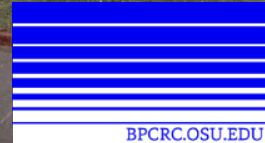


SCOO Weekly Hydrologic Outlook



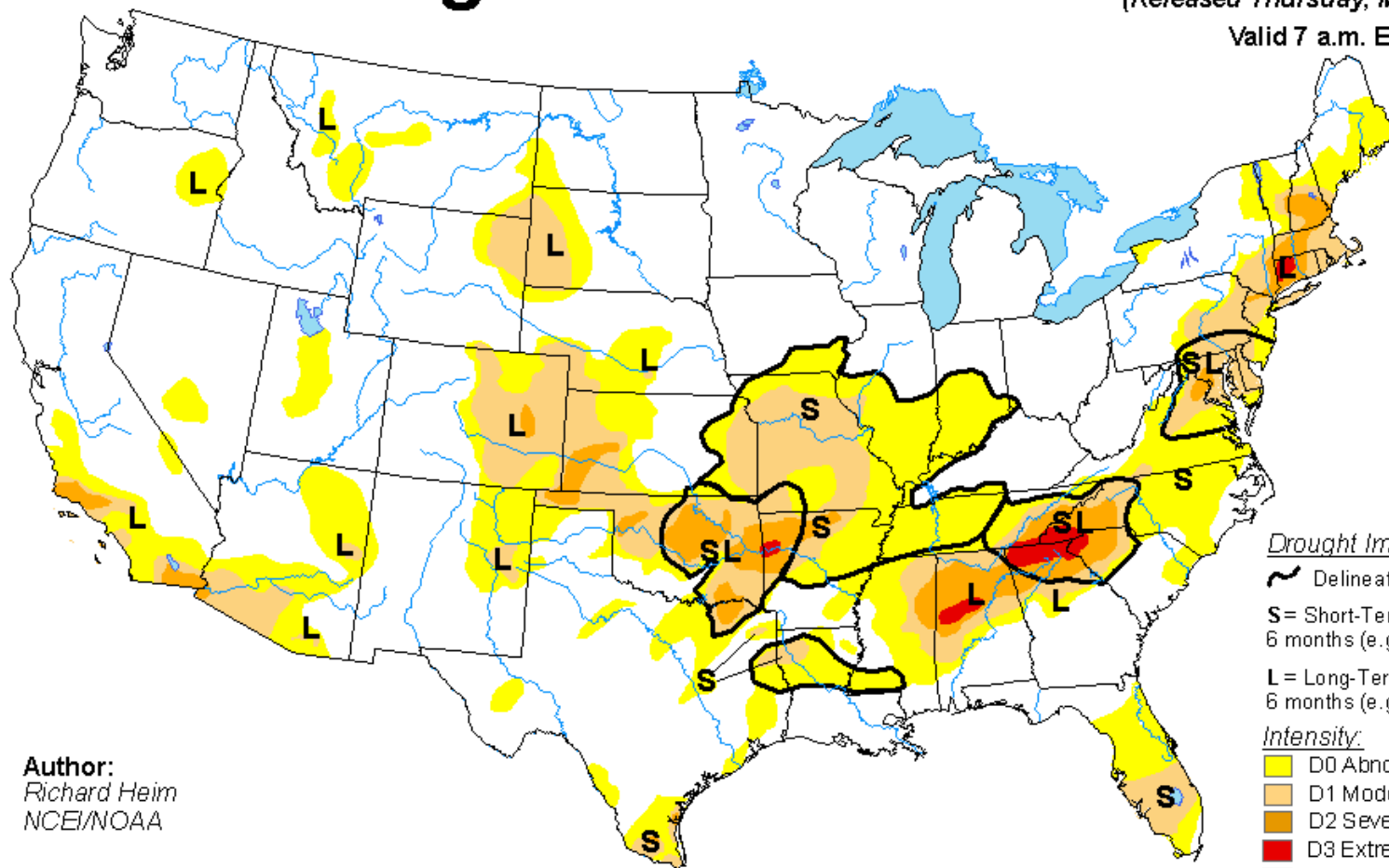
THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL
AND ENVIRONMENTAL SCIENCES



7 March 2017

U.S. Drought Monitor

February 28, 2017
(Released Thursday, Mar. 2, 2017)
Valid 7 a.m. EST



Author:
Richard Heim
NCEI/NOAA

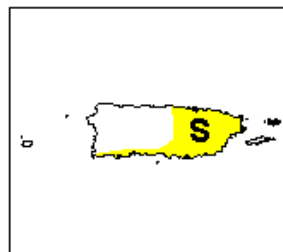
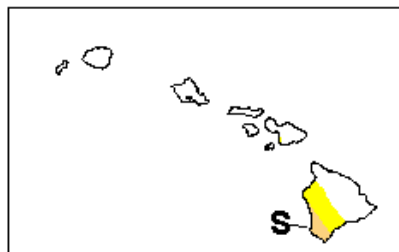
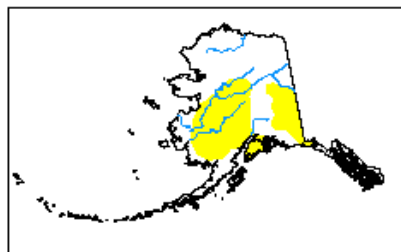
Drought Impact Types:

- ~ Delineates dominant impacts
- S= Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L= Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- Yellow D0 Abnormally Dry
- Light Orange D1 Moderate Drought
- Dark Orange D2 Severe Drought
- Red D3 Extreme Drought
- Dark Red D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

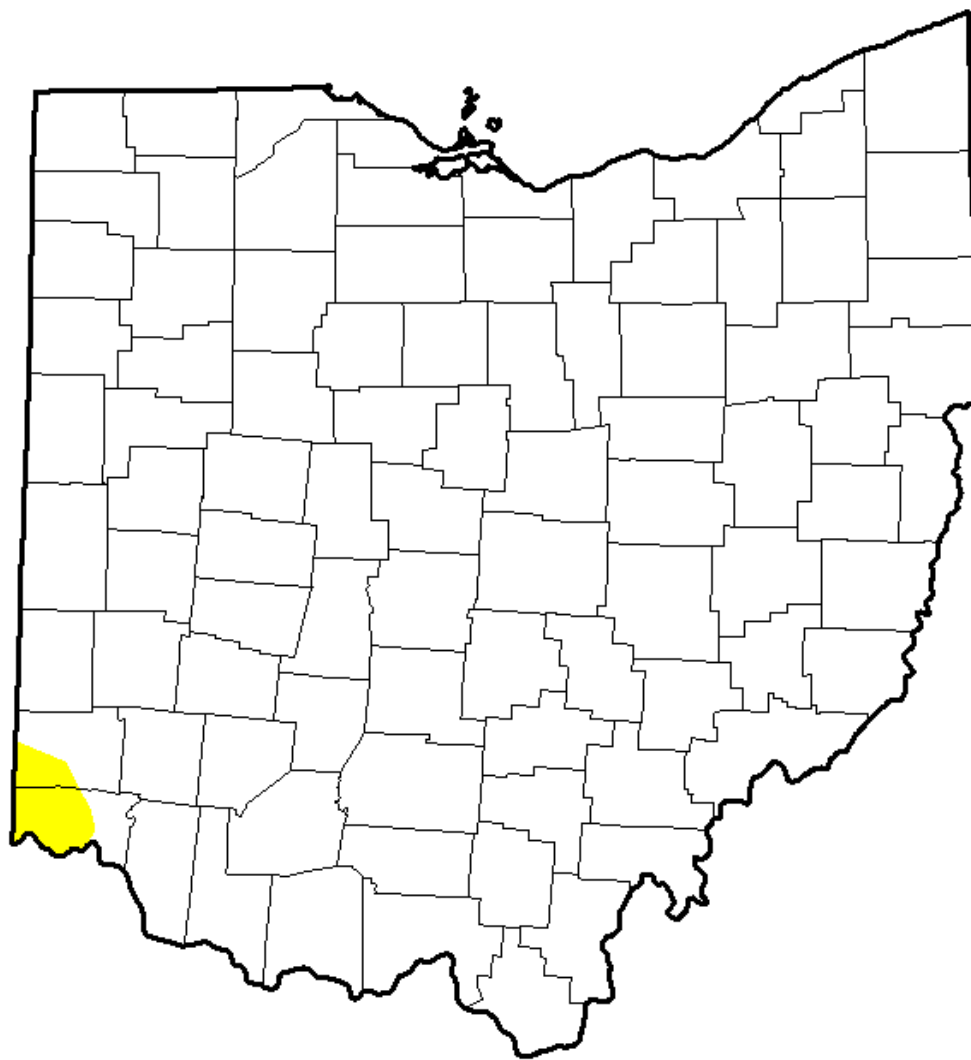


<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor

Ohio

February 28, 2017
 (Released Thursday, Mar. 2, 2017)
 Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	99.11	0.89	0.00	0.00	0.00	0.00
Last Week <i>2/21/2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <i>11/29/2016</i>	38.91	61.09	3.14	0.27	0.00	0.00
Start of Calendar Year <i>1/3/2017</i>	88.16	11.84	0.00	0.00	0.00	0.00
Start of Water Year <i>9/27/2016</i>	36.51	63.49	7.94	0.00	0.00	0.00
One Year Ago <i>3/1/2016</i>	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

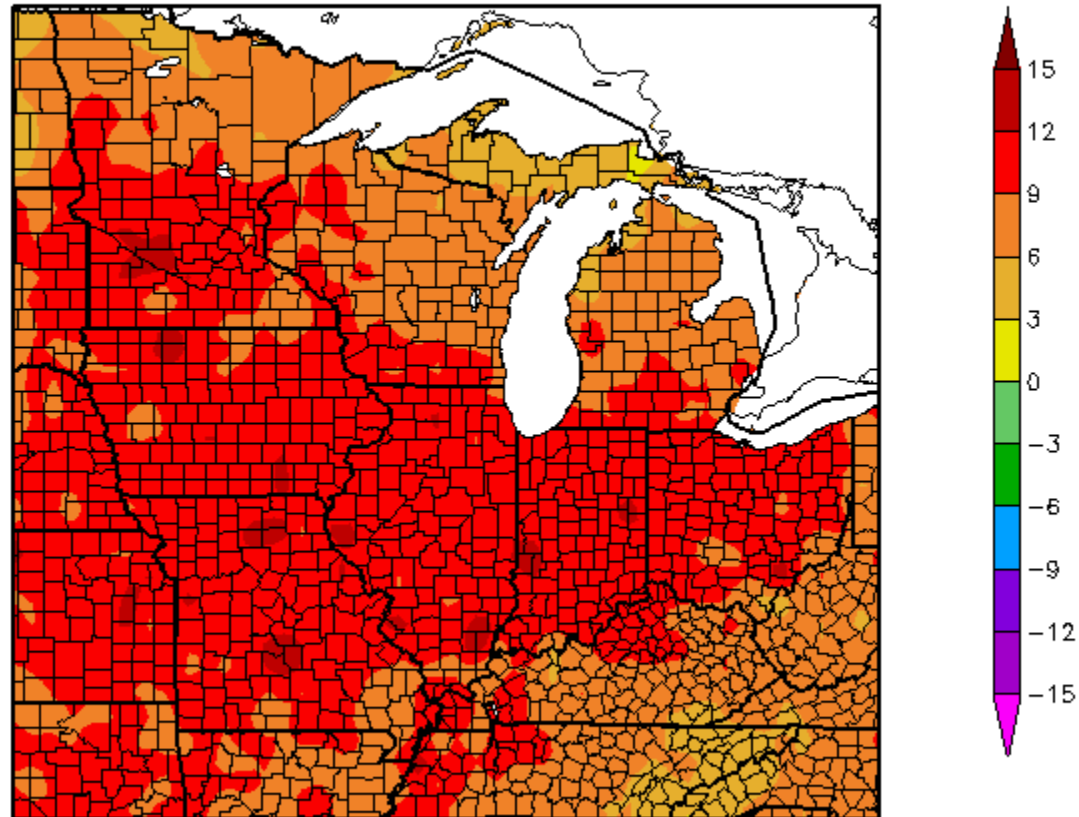
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

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 Richard Heim
 NCEI/NOAA



Previous 30-Day Temperature Departure

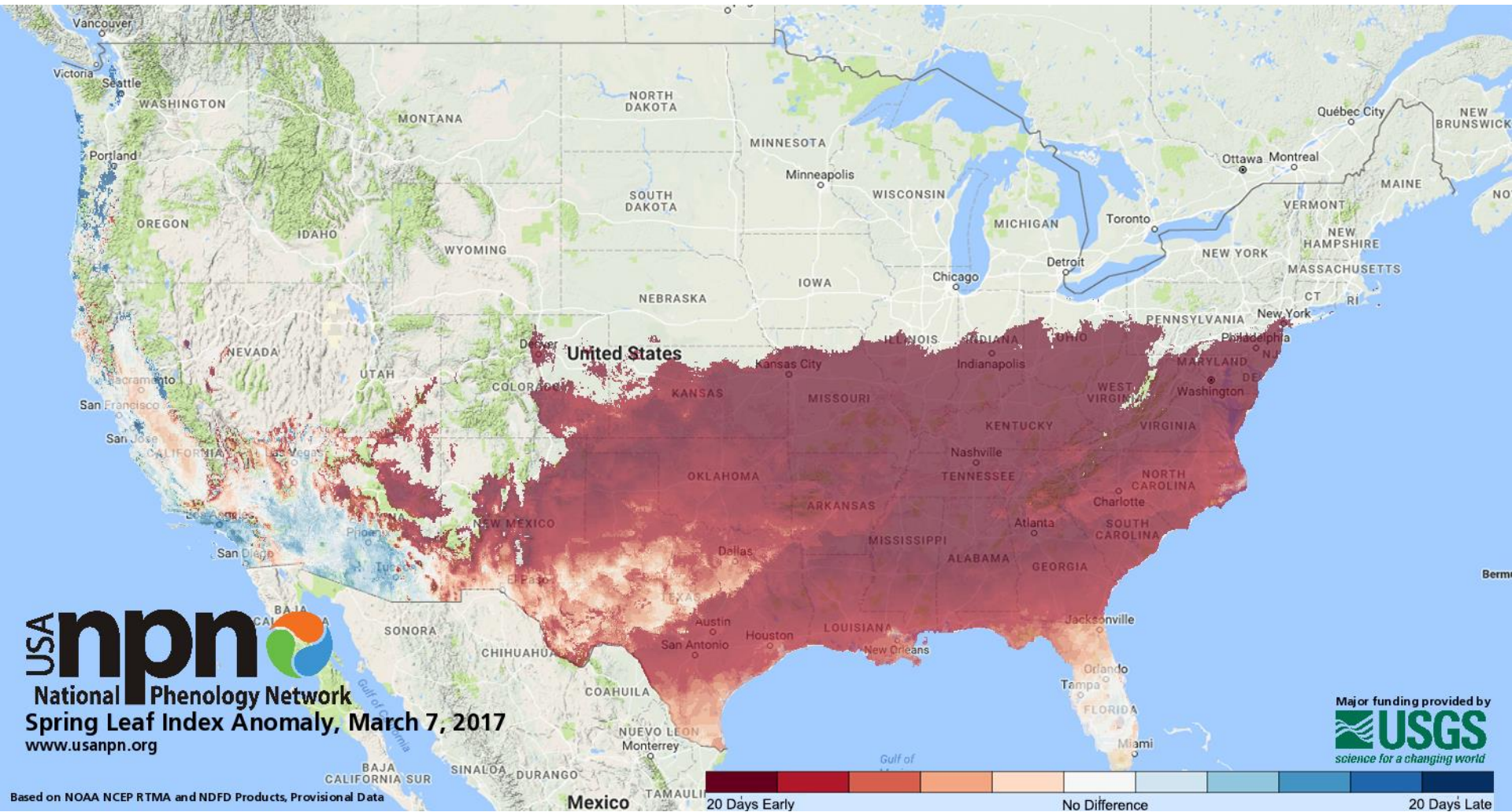
Departure from Normal Temperature (F)
2/5/2017 - 3/6/2017



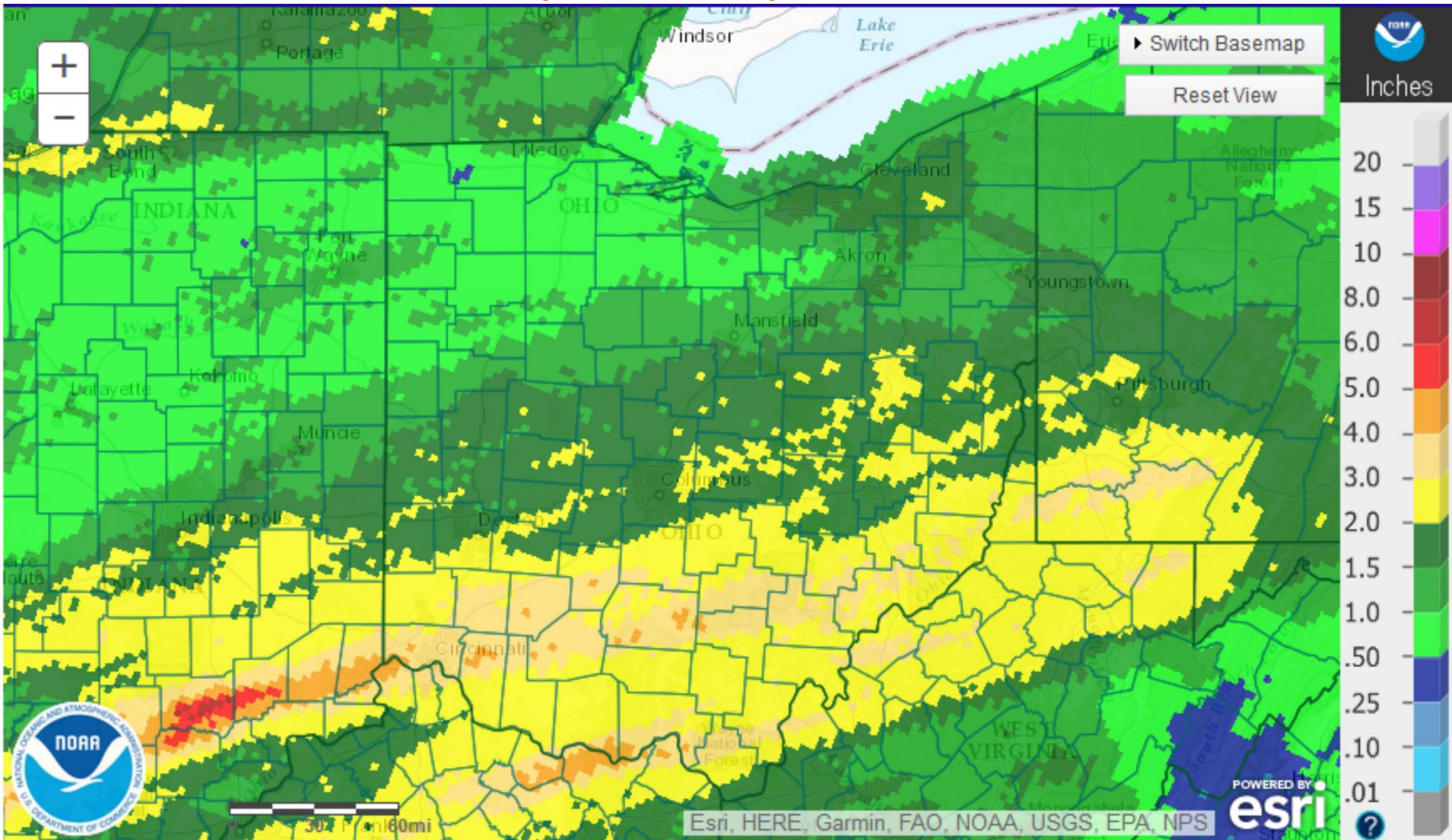
Generated 3/7/2017 at HPRCC using provisional data.

Regional Climate Centers

Early Spring



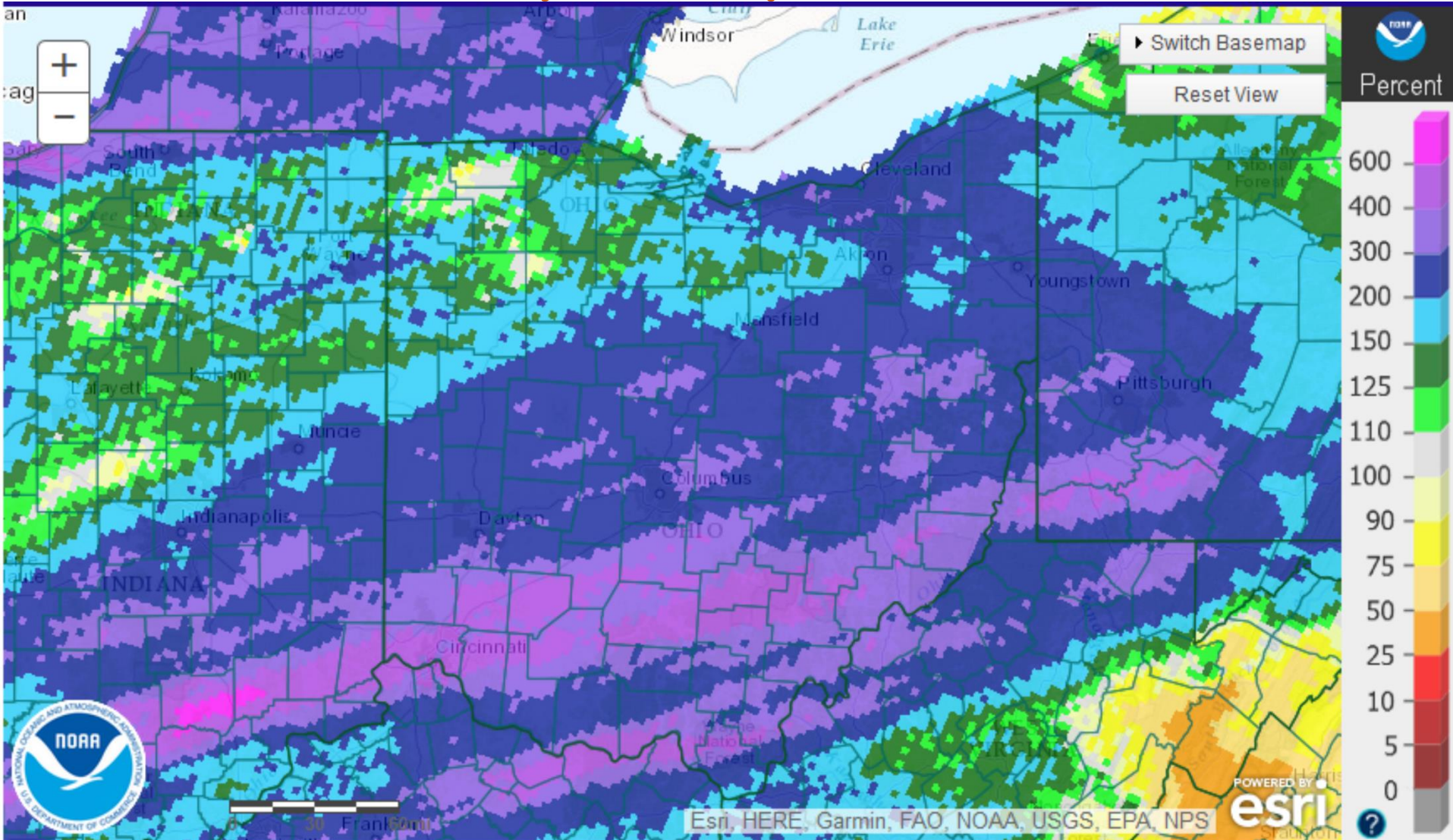
Previous 7-Day Precipitation Estimates



Total Observed



Previous 7-Day Precipitation Estimates

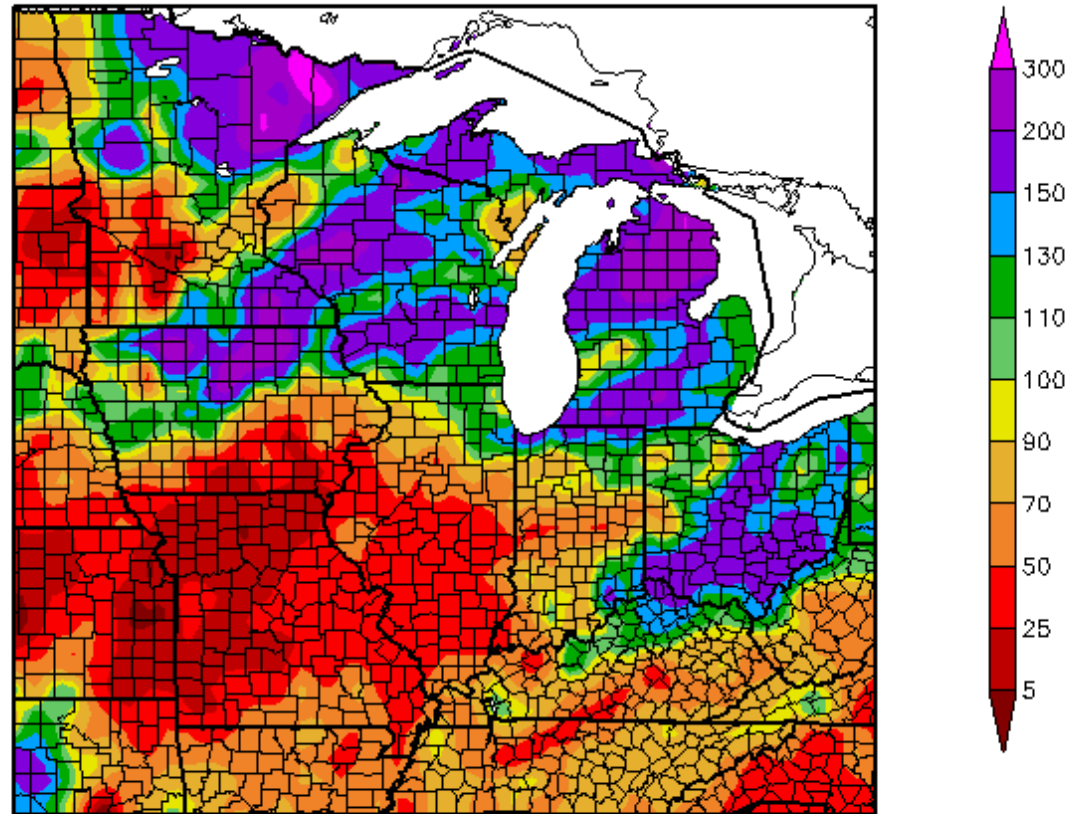


Percent of Normal



Previous 30-Days

Percent of Normal Precipitation (%)
2/5/2017 – 3/6/2017



Generated 3/7/2017 at HPRCC using provisional data.

Regional Climate Centers

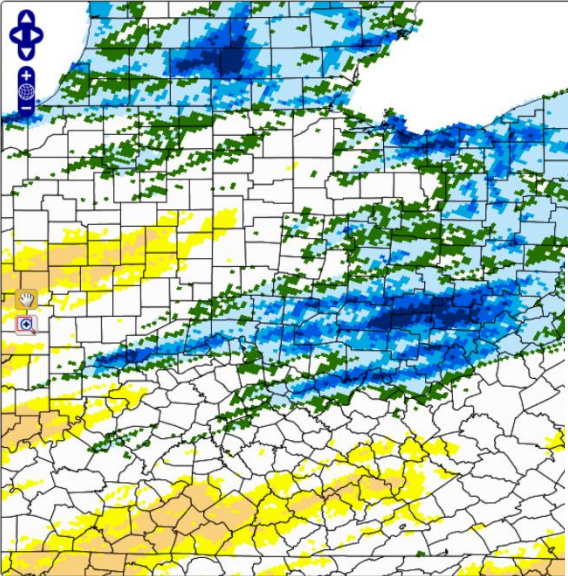
SPI: The Standardized Precipitation Index (SPI) indicates how unusual the amount of accumulated precipitation is, compared to the historical record over a given time scale.

 **State Climate Office of North Carolina** Email: sco@climate.ncsu.edu Phone: 919-515-3056

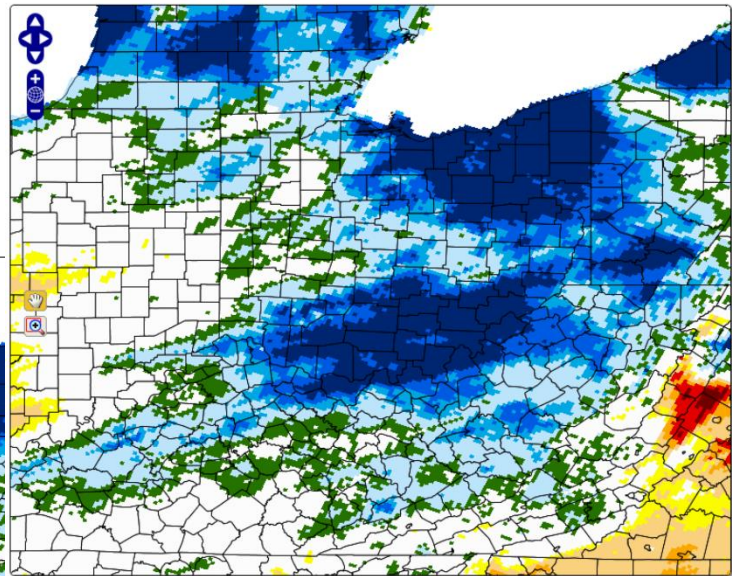
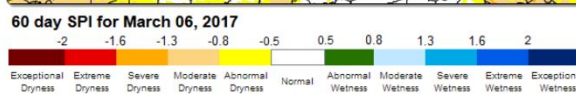
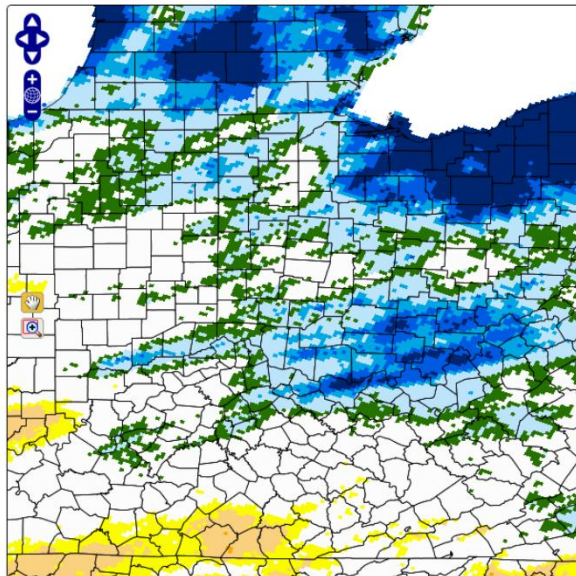
Data and Products Aspects of NC Climate Educational Outreach About Our Office Search

Experimental High Resolution Drought Trigger Tool

60-Day



30-Day



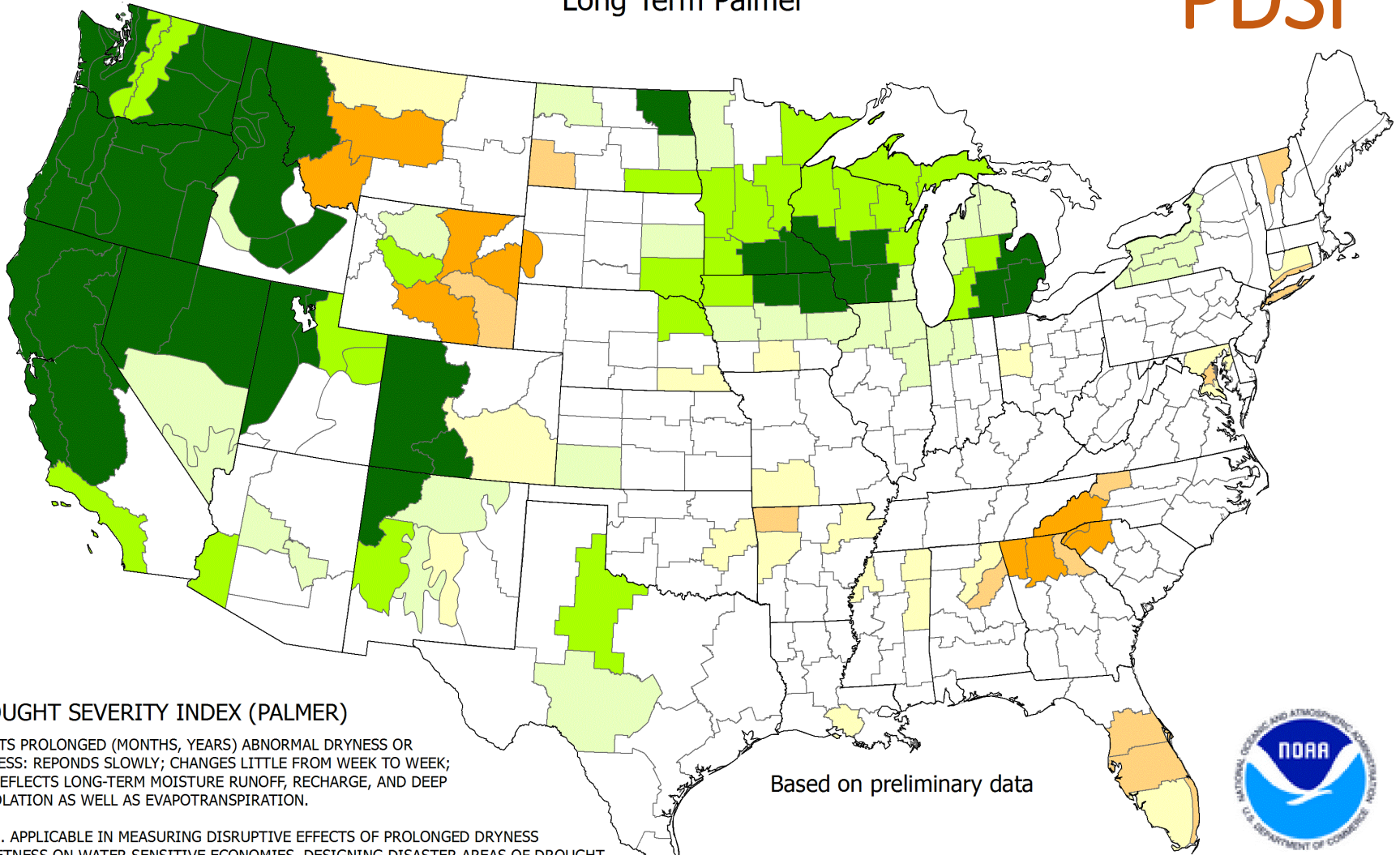
90-Day

Drought Severity Index by Division

Weekly Value for Period Ending Mar 04, 2017

Long Term Palmer

PDSI



DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; REponds SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.

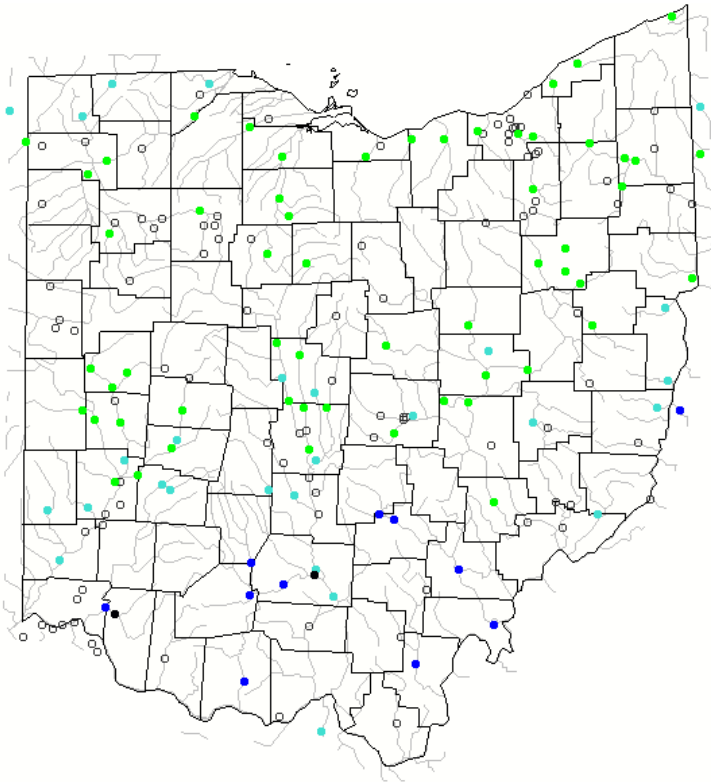
LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Based on preliminary data



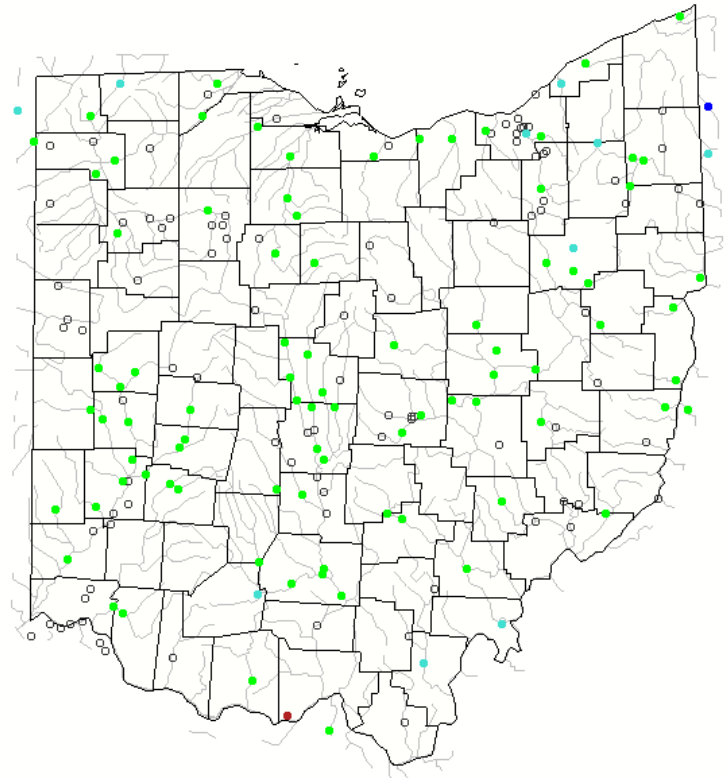
- | | |
|--|---|
| ■ -4.0 or less (Extreme Drought) | ■ +2.0 to +2.9 (Unusual Moist Spell) |
| ■ -3.0 to -3.9 (Severe Drought) | ■ +3.0 to +3.9 (Very Moist Spell) |
| ■ -2.0 to -2.9 (Moderate Drought) | ■ +4.0 and above (Extremely Moist) |
| ■ -1.9 to +1.9 (Near Normal) | |

7-DAY



USGS Streamflow

28-DAY

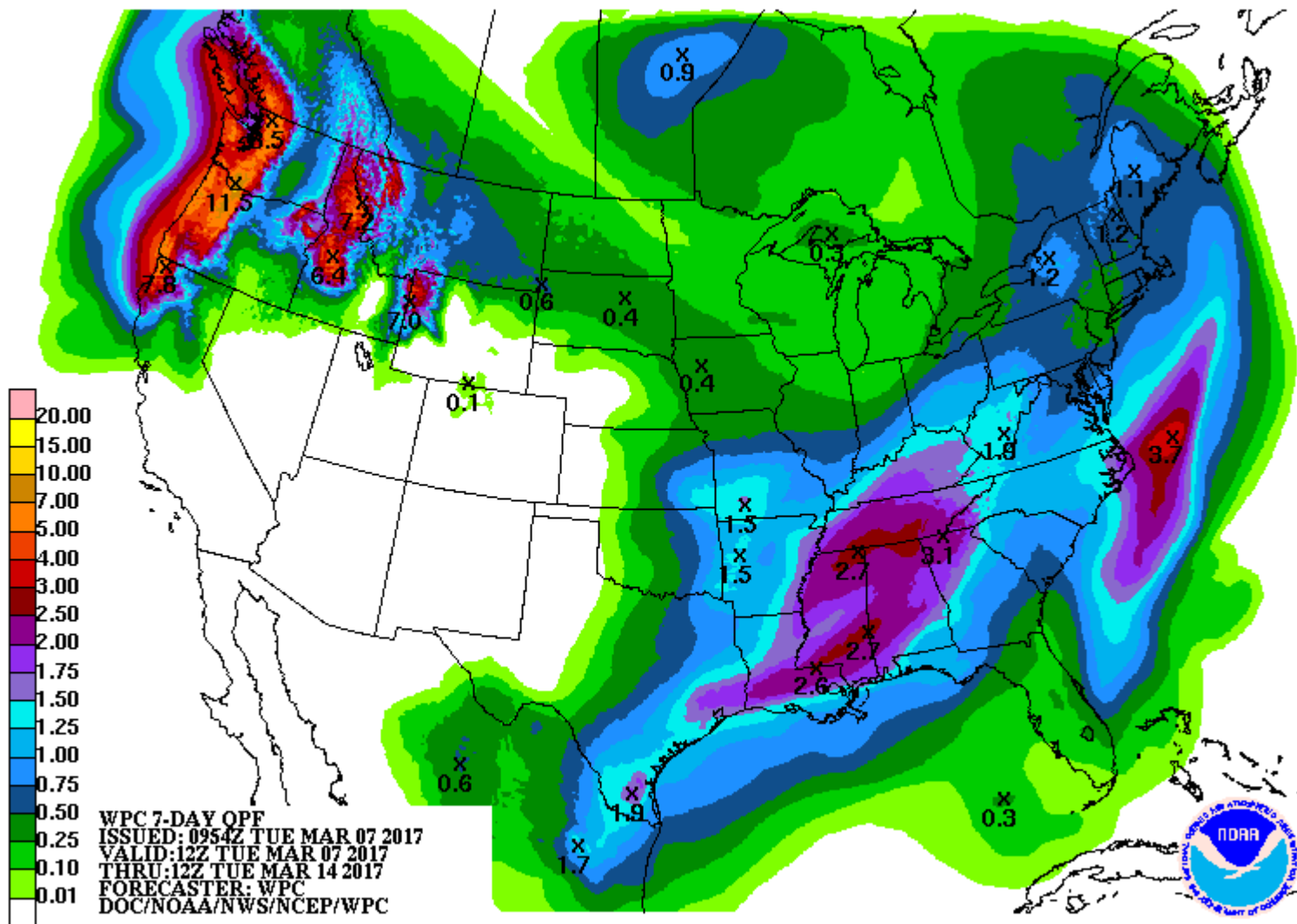


Explanation - Percentile classes

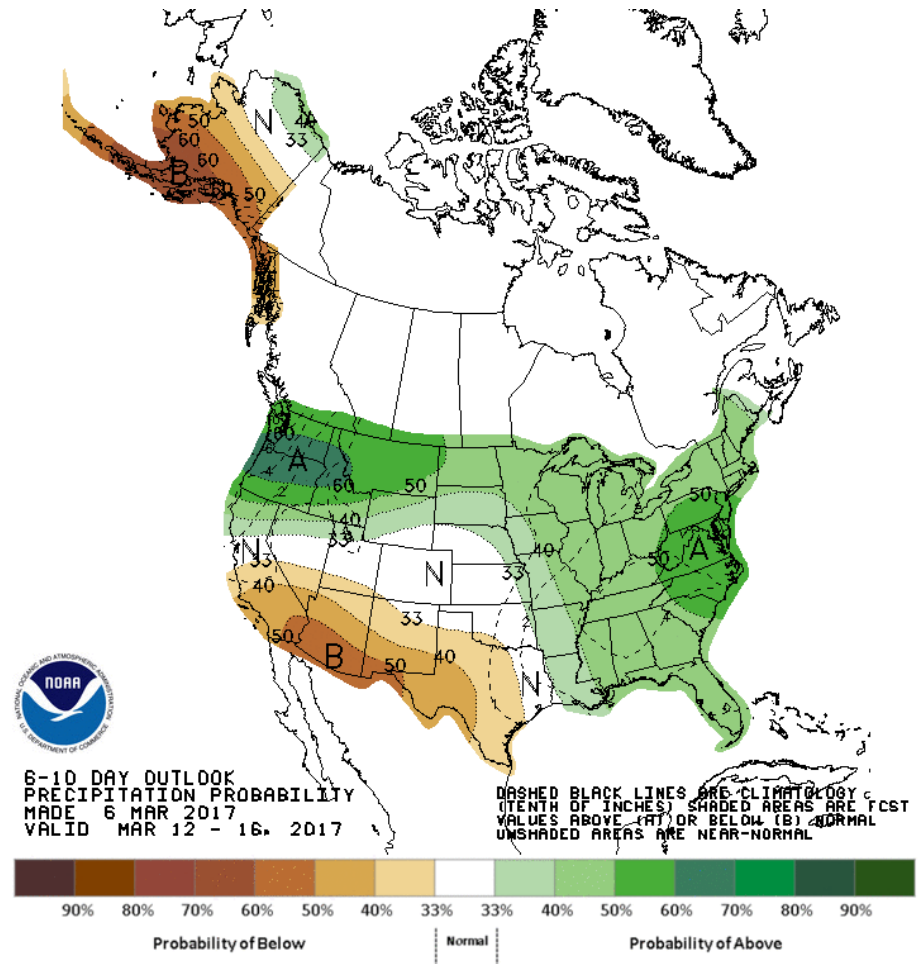
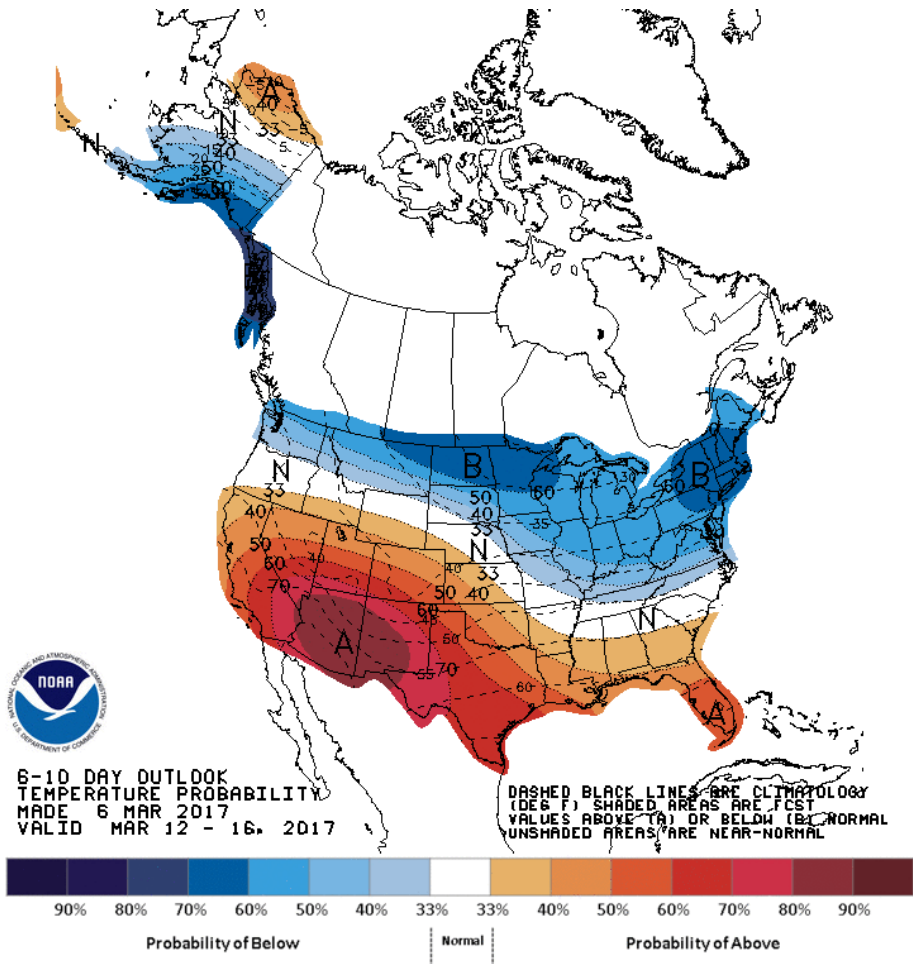
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Average streamflow compared to historical streamflow for the day of the year

Weather for the Week Ahead



6-10 Day Outlook



Summary of Conditions



- **Drought Monitor:** Only SW Corner in Abnormally Dry Category
- **30-Day and 60-Day:** Normal to wet across most of the state
- **30-Day temperatures:** Extremely warm; Spring indices about 20 days ahead of schedule but northward expanse slowing
- **Precipitation:** Opportunities remain above normal through the next 7-days